

DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

Grain-size Parameters and Constituent Grain Composition  
of Surface Sediment  
in Navarin Basin Province, Bering Sea

by

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Open-File-Report 87-64

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

## INTRODUCTION

A total of 314 sediment cores and grab samples were collected in an 80,000 km<sup>2</sup> area of Navarin basin province, northern Bering Sea during four cruises in 1980, 1981, and 1982 (Fig.1). Various analyses were performed on subsamples taken from the cores and grab samples in order to describe the properties of the surface and near-surface sediment. We report the final results of grain-size analyses and compositional studies and present preliminary interpretations based on these analyses. Two previous open-file reports (Karl and Carlson, 1982b; Karl and Carlson, 1984) described preliminary grain-size results. The figures in this report have been reproduced from the best available copies. Better reproductions, especially of the station location map, Figure 1, are found in the open-file reports referenced above.

## DATA COLLECTION

Twenty-two gravity cores and 33 grab samples were collected in spring 1980 from the USCG ice breaker POLAR STAR during cruise PST-80-BS; 104 gravity cores, 10 grab samples and 1 dredge sample were collected in summer 1980 during NOAA ship DISCOVERER cruise DC 4/5-80-BS/NB; 88 gravity cores 10 grab samples, 6 box cores, and 5 vibracores were collected in summer 1981 during DISCOVERER cruise DC 2/3-81-BS/NB; and 25 gravity cores and 11 grab samples were collected in summer 1982 during cruise L10-82-BS of the USGS vessel S.P. LEE. The cores obtained on the POLAR STAR cruise, a cruise of opportunity whose main purpose was to follow the pack ice, were collected at random sites as time permitted. The other three cruises were combination seismic-reflection profiling and sampling cruises. The seafloor samples were collected at intersections of seismic grid lines and at key locations of stratigraphic, sedimentologic, and environmental hazard significance.

No core splitting equipment was available on the POLAR STAR. PST-80-BS cores were stored at Adak, Alaska from late May to late July and then transferred to the DISCOVERER and split and

subsampled on board. DC 4/5-80-BS/NB and DC 2/3-81-BS/NB cores were split and described on board ship. The split cores were placed in D-tubes and kept with subsamples in cold storage. Cores from L10-82-BS were not split on board. These cores were left in cold storage on the ship and unloaded at the end of the field season. The cores were split, described, and subsampled in the USGS laboratories at Palo Alto. The cores are archived at the U.S. Geological Survey cold storage facilities in Palo Alto and Redwood City, California.

Navigation was by Loran C and satellite; position accuracies are probably on the order of 0.5 km.

## METHODS

Grain-size analysis:-- Subsamples obtained from gravity cores and grab samples were soaked in  $H_2O_2$  solution or acetone solution to remove oxidizable organic matter disaggregate the samples. The samples were next wet sieved on a 63  $\mu m$  screen to separate the mud and the sand fraction . If gravel (>2 mm) was present, it was separated from sand by dry sieving. The fine-sediment fraction (<63  $\mu m$ ) was analyzed by standard pipette method and the sand-size material analyzed by standard rapid settling tube (RSA) method. Statistical parameters were calculated as moment measures.

Constituent grain composition analysis:-- A split of the sand-size fraction of the subsamples was obtained for grain composition analysis. Analysis was performed by visual identification of between 300 and 400 sand grains with the aid of a binocular microscope using a magnification of 50X. Statistical parameters were calculated for grain composition and their relation to water depth.

## RESULTS

Grain-size analysis:-- Table 1 contains the results of grain-size analyses done on 276 samples. Of these, 204 are surface samples, which in the case of cores is defined as being from the upper 30 cm. The variation in textural parameters across the study area is shown in Figures 2 through 5. These maps show that grain-size properties of surficial sediment present in a fairly contiguous band on the outer shelf and upper slope differ considerably from the properties of sediment on the adjacent shelf and slope. This

band is best defined by the sand/mud ratio (fig. 5); all sediment within this band has a sand/mud ratio equal to or greater than 1. Sand/mud ratios of samples within the band have a mean of 4.2 with a standard deviation of 7.6. Mean grain-size of these samples is 3.7  $\Phi$  with a standard deviation of 0.8. Samples on the shelf outside the band of sandy sediment have an average sand/mud ratio of 0.3 with a standard deviation of 0.2 and an average grain-size of 6.2  $\Phi$  with a standard deviation of 0.9. Samples on the slope and rise have a mean sand/mud ratio of 0.2 with a standard deviation of 0.2 and a mean grain-size of 6.9  $\Phi$  with a standard deviation of 0.9.

Sediment within the shelf break band, then, is markedly sandier and coarser than that on the shelf and slope. The boundaries of the shelf break band generally lie between the 150 and 500m bathymetric contours, but deviate from this at the submarine canyons. The other feature of note on the textural parameter maps is a zone of fine-grained and poorly sorted sediment on the shelf in the northern part of the study area. Grain-size properties in this zone compare closely with those of typical slope and rise samples (Figs. 6 and 7).

Constituent grain composition:-- Table 2 contains the results of compositional analyses done on 224 samples of which 149 are surface samples (upper 30 cm). Figures 8 and 9 show the variation across Navarin basin province of detrital grains and biogenic grains. Contour patterns on these two maps are essentially the inverse of one another. Figure 8 reveals that there are zones in which the biogenic constituents are concentrated. High percentages of biogenic constituents occur on the shelf in water shallower than 150 m and on the slope and rise. The shelf break is generally a region of low percentages of biogenic constituents. The 20% isopleth defines a very sinuous pattern. Areas on the shelf between the submarine canyons show high percentages of biogenic grains, whereas the canyons themselves and the area on the shelf adjacent to the canyon heads show very low percentages of biogenic grains. Most of the biogenic grains are diatom remains (Table 2). Glauconite is present in a few samples generally in trace amounts; two samples, however, are >40% glauconite (Table 2). Volcanic shards and mica flakes generally constitute 1-5% of many of the samples and attain maximum values of 15-17% in a few samples (Table 2).

## DISCUSSION AND INTERPRETATION

The predominance of fine silt- and clay-size material in the rise and slope samples is typical of deep water environments. The abundance of diatoms in the biogenic component of the slope and rise sediments reflects nutrient-rich upwelled water (Handa and Tanoue, 1981). Depositional conditions in these environments during low stands of sea level in the Pleistocene probably would not have been appreciably different than present-day conditions. This, however, is not true of the shelf, shelf break sand zone, and canyon heads. The fine sediments in the northern section of the shelf may indicate that relict sediment from lower sea level stands is being diluted with finer material following flooding of the shelf. This interpretation is consistent with the high percentages of biogenic grains, mostly diatoms, found in the sediment covering this area (Fig. 8; Table 2). Alternatively, this area may be a sediment sink owing to differential basin subsidence (Carlson et al., 1982). The zone of coarse sediment at the shelf edge and in the canyon heads could reflect, in part, deposition at times of lower sea levels when shorelines were at or near these areas (Karl and Carlson, 1982). Individual sand zones in the canyon heads that are distinguished by large sand waves and sets of inclined beds cover areas as great as 1400 km<sup>2</sup> and are as thick as 100 m. This sand could have accumulated at the mouths of streams that crossed the exposed continental shelf. Alternatively, the sand zones might reflect modern processes that supply sufficient energy to winnow sediment at these sites. The Bering Slope Current which flows northwestward parallel to the shelf break, and internal waves, which may be focused in and adjacent to heads of the submarine canyons, are potential mechanisms to supply energy to winnow sediments. Patterns in the biogenic constituent percent suggest that the submarine canyons influence current systems on the shelf, thereby influencing sedimentation (Fig. 8). These patterns are very similar to the regional variation in total suspended matter (Karl and Carlson, in press).

The primary textural patterns on the shelf probably reflect the pelagic depositional environment since the Holocene transgression. The band of relatively coarse sediment along the outer shelf and upper slope may reflect material deposited by small glacial streams at the shoreline during the low stands of sea level in the Pleistocene. This relict sediment is presently being diluted by modern fine-

grained sediment, but there is sufficient energy at the shelf break to maintain the coarse nature of this zone relative to the shallower parts of the shelf and deeper parts of the slope. Preliminary analysis of the seismic stratigraphy of the Navarin basin province and the fact that present day fluvial sources are more than 300 km away support this hypothesis. The large submarine canyons seem to affect deposition on the shelf by controlling current regimes as indicated by the patterns of biogenic material on the shelf.

#### ACKNOWLEDGEMENTS

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9. Percentage of detrital grains

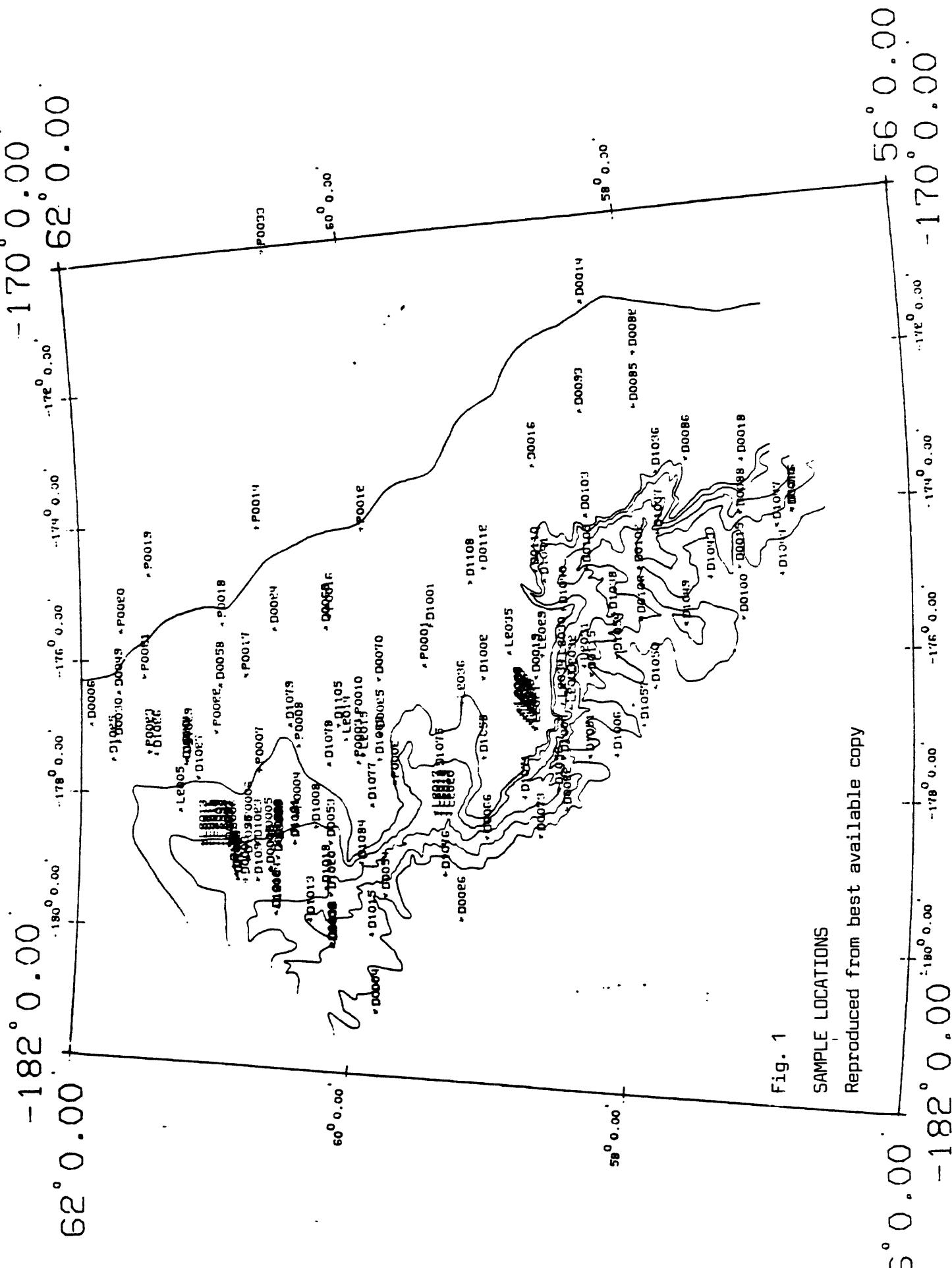
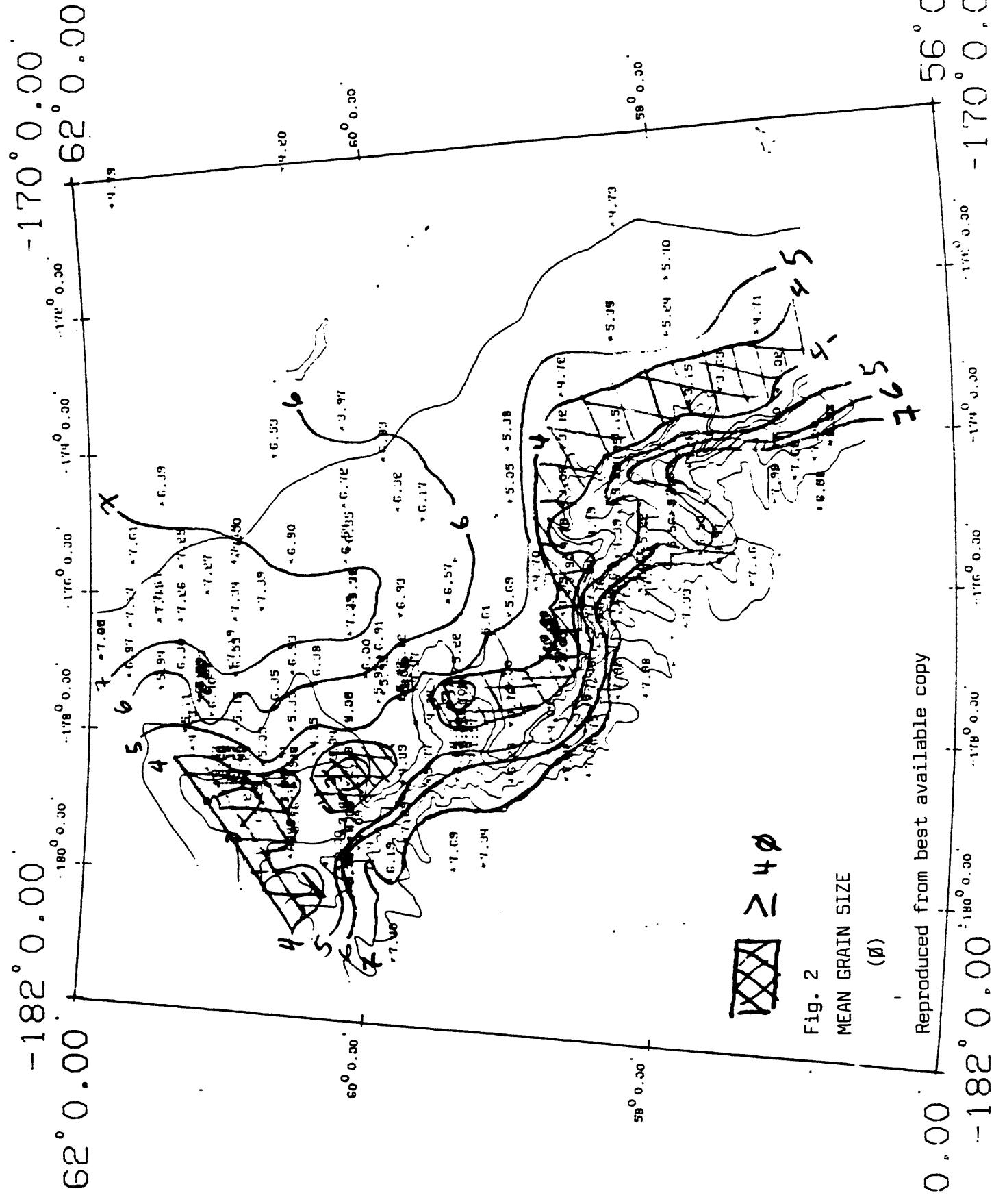


Fig. 1

## SAMPLE LOCATIONS

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(#)

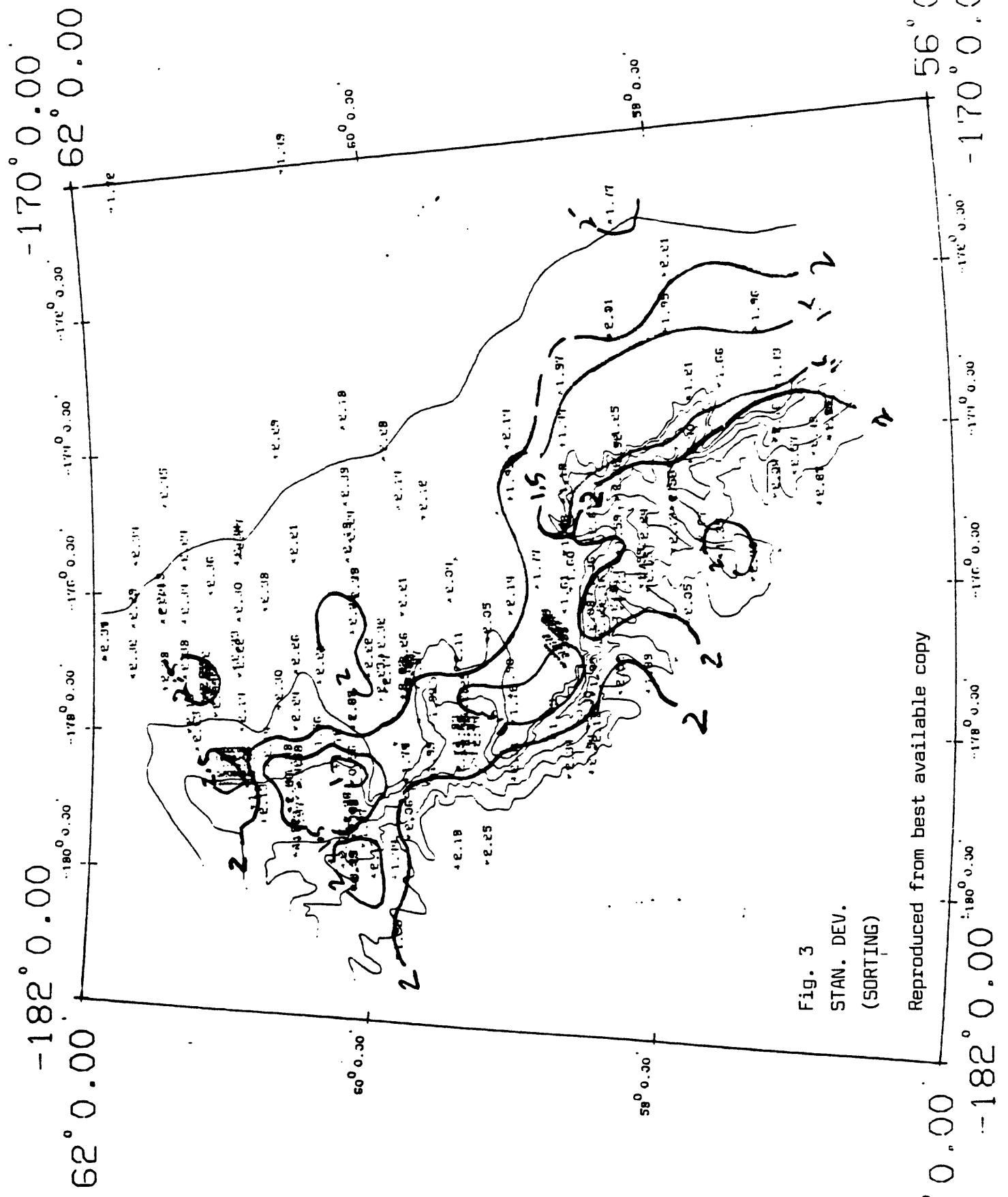


Fig. 3  
STAN. DEV.  
(SORTING)  
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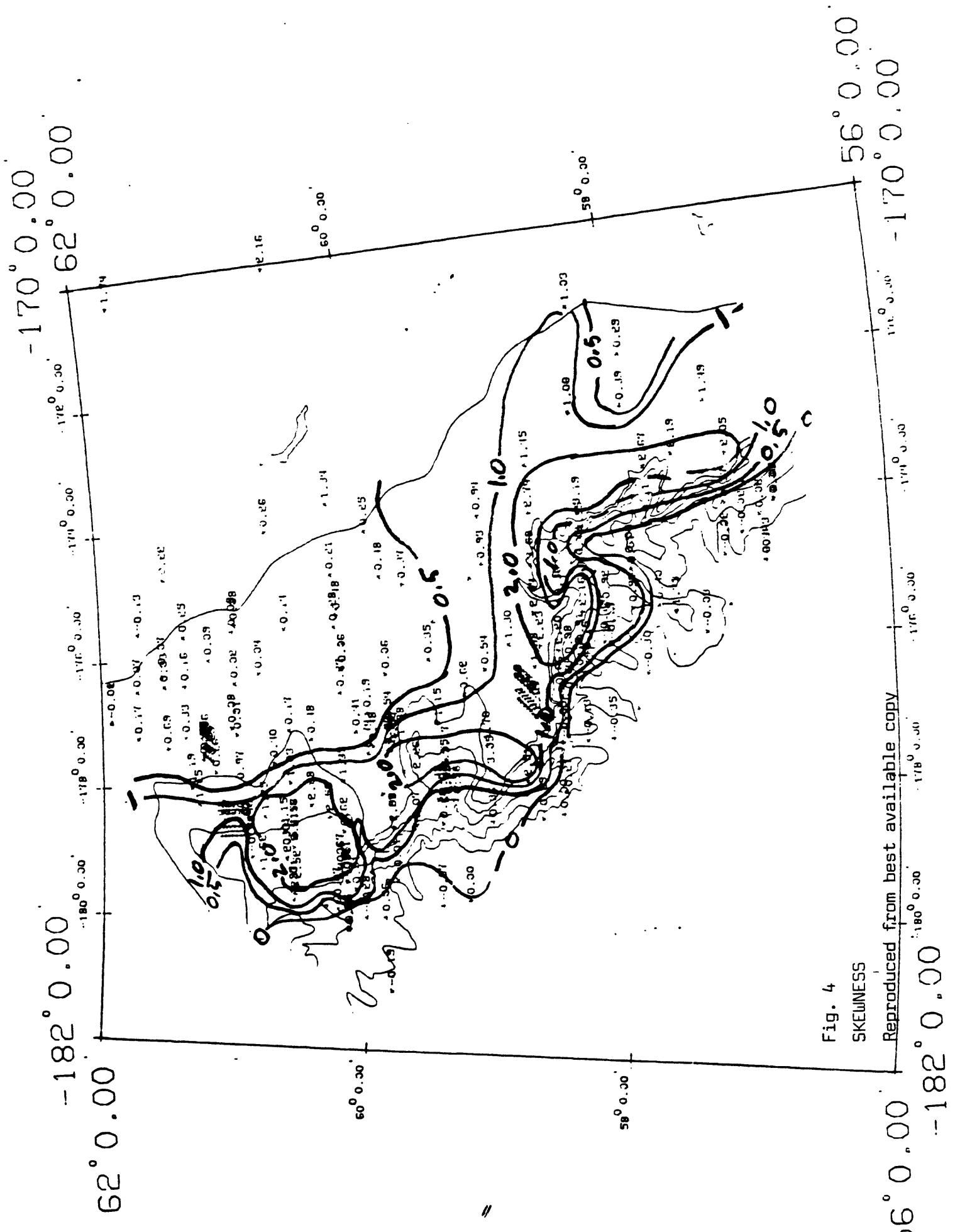


Fig. 4  
SKEWNESS  
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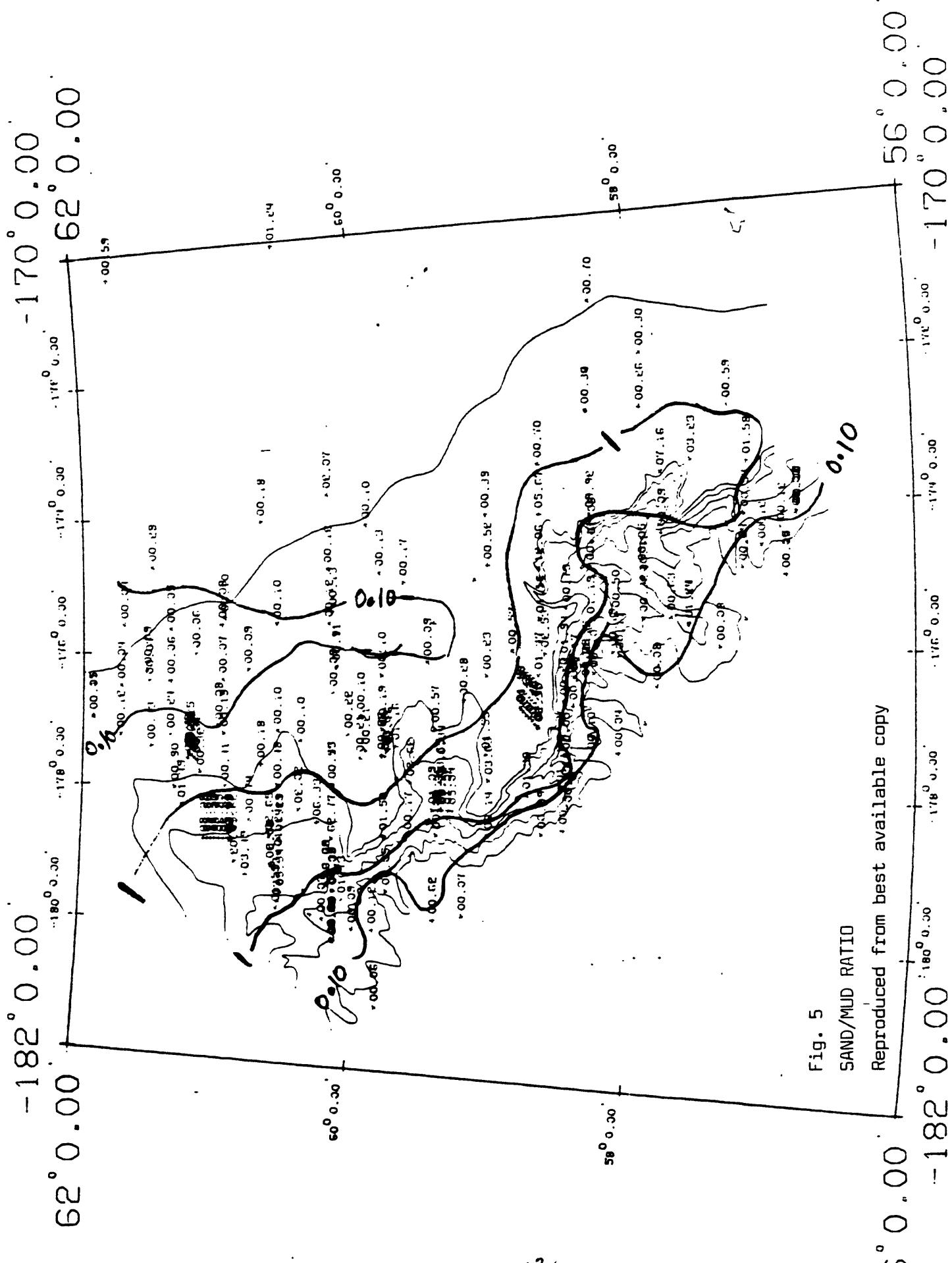


Fig. 5  
SAND/MUD RATIO  
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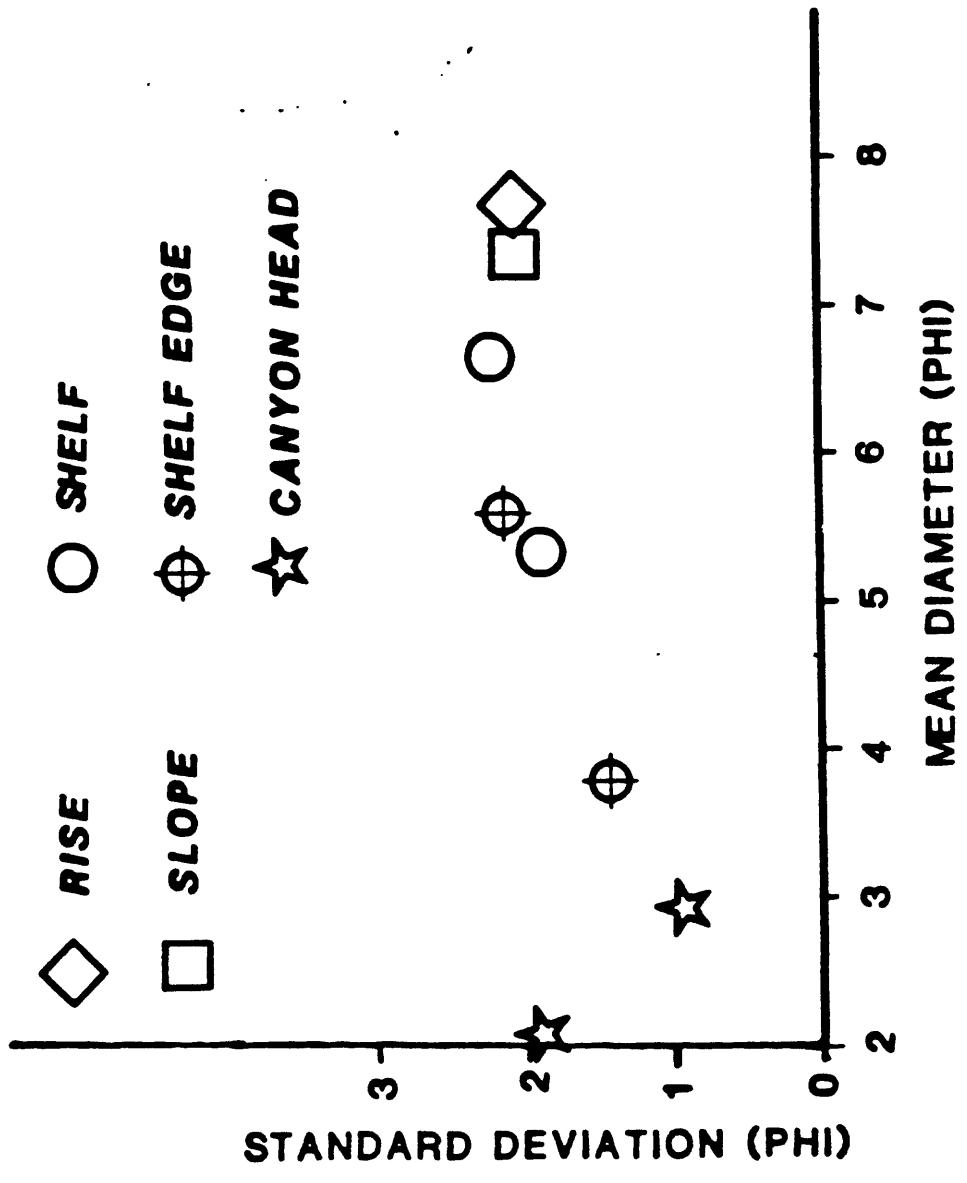


Figure 6. Plot of mean diameter vs. standard deviation.  
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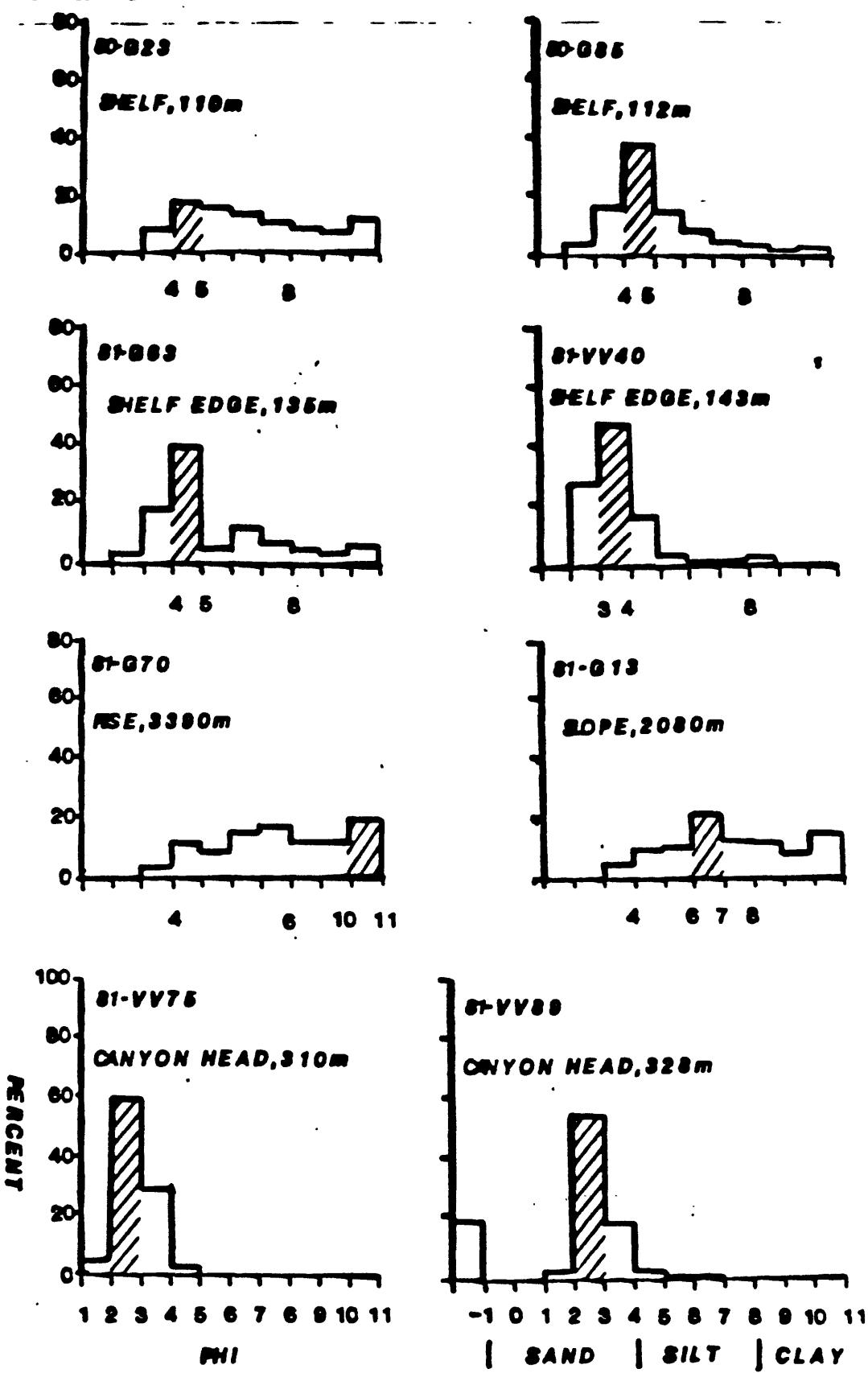


Figure 7. Histograms of selected samples. Modes identified by hachuring; dominant mode is hatched in bimodal samples.

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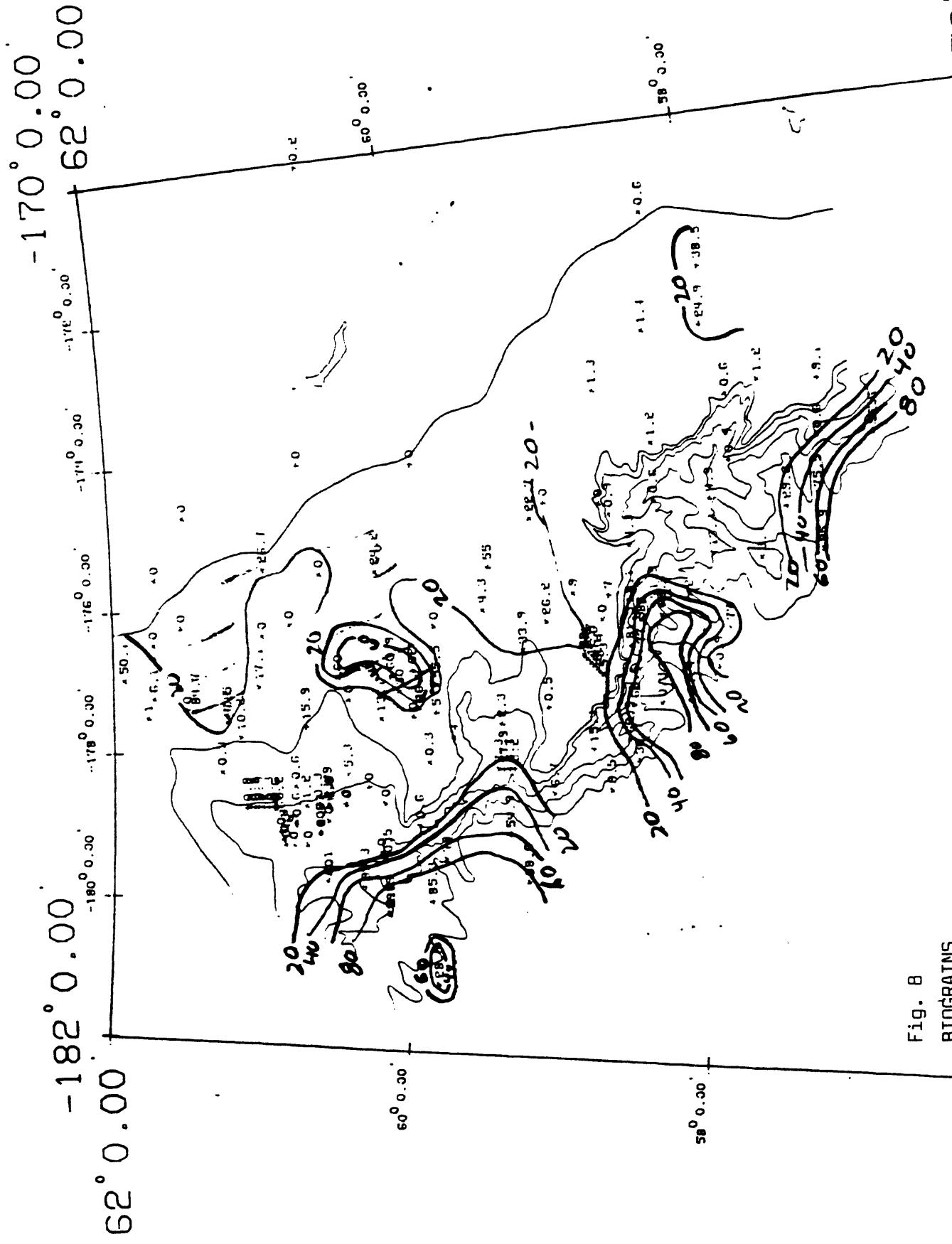


Fig. 8  
BIODEGRADATION  
(Diatoms + Planktonic Forams + Benthic Forams + Rads)  
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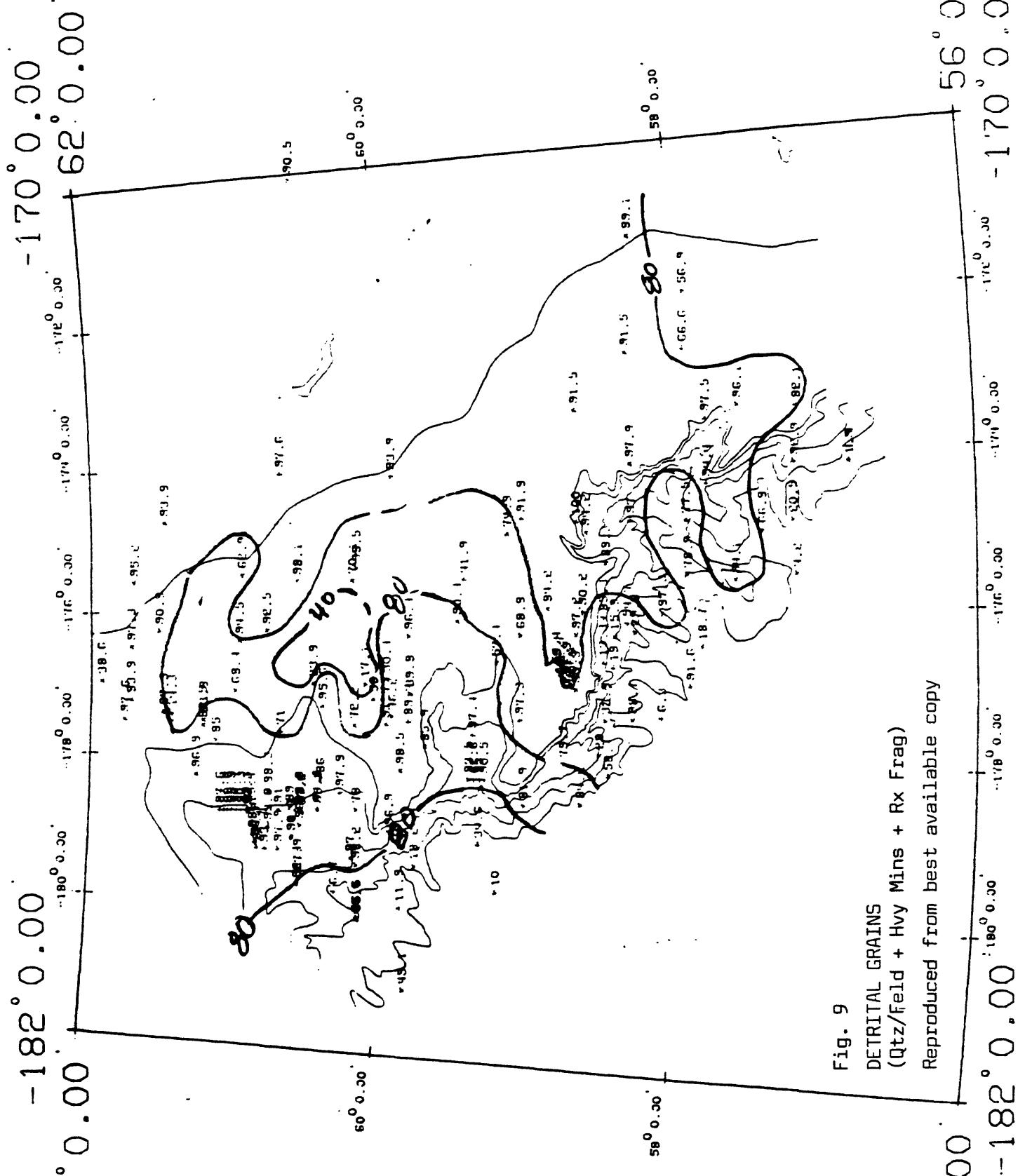


Fig. 9  
DETritAL GRAINS  
(Qtz/Feld + Hvy Mins + Rx Frag)  
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• TABLES

1. Grain-size parameters for all samples
2. Compositional parameters for all samples

LAT	LONG	CRUISE	STATION #	DATE	DEPTH (m)	% GRAVEL	% SAND	% SILT	% CLAY	SAND/MUD	PERCENT (%)	SORTING	REMAINS	MURTOSS
60.80333	-179.28334	DC80003	001	0524	00.0	77.7	16.8	05.6	03.49	3.25	2.13	1.62	01.97	
59.81834	-181.10333	DC80004	006	3222	00.0	05.4	50.7	43.9	00.06	7.40	1.99	-0.19	-01.26	
61.93000	-176.96833	DC80005	010	0113	00.0	10.0	53.2	36.8	00.11	7.05	2.34	-0.01	-01.16	
61.93000	-176.96834	DC80006	007	0113	00.0	04.6	50.3	45.1	00.05	7.62	2.31	-0.02	-01.37	
60.57167	-178.93668	DC80007	007	0288	00.0	55.6	40.7	03.8	01.24	4.19	1.42	2.41	07.37	
60.62500	-179.11167	DC80011	001	0340	00.0	72.1	24.1	03.8	02.58	3.65	1.53	2.33	06.41	
60.62500	-179.11167	DC80012	025	3164	00.0	05.8	50.6	43.6	00.06	7.46	2.26	-0.01	-01.21	
58.85833	-174.17334	DC80013	004	2962	00.0	02.6	50.7	45.7	00.03	8.03	1.85	0.06	-00.85	
58.28833	-171.18666	DC80014	007	0091	00.0	41.1	50.9	08.0	00.70	4.73	1.77	1.03	00.54	
57.24667	-174.88499	DC80015	001	3420	00.0	03.6	48.2	48.2	00.04	7.98	2.04	-0.02	-00.90	
58.71333	-173.40334	DC80016	004	0120	00.0	41.1	50.3	08.6	00.70	4.72	1.87	1.45	01.78	
57.41167	-175.94167	DC80017	012	2481	00.0	07.2	54.6	38.2	00.08	7.16	2.40	-0.03	-01.24	
57.20500	-173.46167	DC80018	006	0134	00.0	61.2	35.2	03.6	01.58	4.02	1.43	2.05	05.41	
58.72667	-176.32666	DC80019	005	0133	00.0	59.5	36.6	03.9	01.47	3.99	1.61	1.98	04.92	
59.10167	-174.08500	DC80020	005	0120	00.0	27.3	58.1	14.6	00.38	5.38	2.14	0.94	00.07	
58.49667	-178.16000	DC80022	016	2842	00.0	03.3	66.5	30.2	00.03	6.75	2.18	0.21	-01.09	
60.24167	-174.81167	DC80023	010	0110	00.0	10.4	60.0	29.6	00.12	6.72	2.38	0.21	-01.08	
60.80833	-175.59167	DC80024	010	0117	00.0	09.3	59.3	31.4	00.10	6.80	2.21	0.14	-00.91	
59.84667	-177.11333	DC80025	013	0140	00.0	15.9	62.1	22.0	00.19	6.12	2.26	0.54	-00.73	
59.23000	-179.73167	DC80026	012	3373	00.0	06.5	52.9	40.6	00.07	7.34	2.25	0.00	-01.13	
60.20333	-177.93333	DC80027	001	0150	00.0	42.1	45.7	12.2	00.73	5.02	2.07	1.31	00.85	
60.20334	-177.93334	DC80028	008	0150	00.0	35.6	54.2	10.2	00.55	4.95	1.88	1.43	01.42	
61.19000	-176.02667	DC80029	013	0109	00.0	06.0	65.7	38.3	00.06	7.27	2.36	0.09	-01.26	
61.73000	-177.23334	DC80030	013	0120	00.0	10.4	55.1	34.5	00.12	6.87	2.32	0.17	-01.22	
61.33167	-178.01667	DC80032	018	0150	00.0	44.5	40.4	15.1	00.80	5.11	2.18	1.19	00.17	
60.92334	-178.78000	DC80033	001	0210	00.0	74.4	20.3	05.3	02.91	3.91	1.18	0.60	10.00	
60.54667	-179.51333	DC80035	001	0868	00.0	77.0	19.5	03.5	03.34	3.76	1.37	2.52	07.40	
60.15833	-180.18333	DC80036	010	1924	00.0	76.4	18.3	05.3	03.24	3.50	1.09	1.78	02.98	
59.43833	-179.80500	DC80037	001	2856	00.0	05.8	49.7	44.5	00.62	7.69	2.18	-0.07	-00.99	
60.16667	-179.46000	DC80038	001	0990	00.0	58.1	34.7	07.2	01.39	4.33	1.78	1.81	03.11	
60.56167	-178.75832	DC80039	001	0220										
60.56167	-178.75833	DC80040	001	0220										
60.97167	-177.98833	DC80041	015	0150	00.0	29.2	55.3	15.5	00.41	5.45	2.14	0.97	-00.04	
61.18167	-177.60167	DC80043	002	0148	00.0	23.9	48.5	27.6	00.31	6.24	2.41	0.29	-01.09	
61.19833	-177.57000	DC80044	010	0138	00.0	24.3	48.1	27.6	00.32	6.24	2.48	0.36	-01.14	
61.21833	-177.53833	DC80045	004	0137	00.0	33.4	43.0	23.6	00.50	5.80	2.52	0.49	-01.02	
61.23833	-177.50667	DC80046	006	0134	00.0	29.2	44.4	26.4	00.41	6.09	2.53	0.38	-01.15	
61.24000	-177.50833	DC80047	007	0134	00.0	33.7	43.4	22.9	00.51	5.81	2.55	0.55	-01.02	
61.37167	-177.23333	DC80048	005	0124	00.0	19.2	52.1	28.7	00.24	6.30	2.38	0.33	-01.11	
61.73000	-176.48833	DC80049	009	0108	00.0	03.8	57.7	38.5	00.04	7.17	2.29	0.07	-01.40	
61.37167	-176.42000	DC80050	015	0110	00.0	05.7	55.2	39.1	00.06	7.26	2.34	0.16	-01.27	
60.98667	-177.20333	DC80051	010	0123	00.0	15.2	54.1	30.7	00.18	6.53	2.22	0.01	-01.20	
60.59333	-177.95667	DC80052	006	0159	00.0	32.6	51.6	15.8	00.48	5.33	2.24	1.03	00.00	
60.19333	-178.70188	DC80053	001	0295	00.0	98.4	01.6	00.0	82.77	2.18	0.56	0.62	05.47	
59.78667	-179.43167	DC80054	001	2929	00.0	04.8	51.9	43.3	00.05	7.69	2.06	-0.01	-01.03	
59.82167	-178.64500	DC80055	001	0160	00.0	59.9	33.3	06.8	01.50	4.33	1.74	1.98	03.67	
59.82168	-178.64501	DC80056	002	0159	00.0	60.2	33.9	05.9	01.51	4.29	1.71	2.07	04.28	
60.60167	-177.15167	DC80057	005	0145	00.0	08.9	58.3	32.8	00.10	6.83	2.26	0.17	-01.08	
60.99834	-178.40666	DC80058	015	0118	00.0	06.3	55.5	37.2	00.07	7.34	2.30	0.02	-01.18	
61.37167	-175.65500	DC80059	015	0099	00.0	04.8	60.5	34.7	00.05	7.25	2.24	0.25	-01.16	
61.00167	-175.59500	DC80060	010	0106	00.0	07.4	57.9	34.7	00.08	7.14	2.34	0.08	-01.18	
59.44000	-178.59833	DC80065	001	1809	00.0	07.1	66.9	26.0	00.08	6.45	2.19	0.26	-00.99	
59.06500	-178.57833	DC80066	005	1336	00.0	12.5	62.8	24.7	00.14	6.23	2.31	0.36	-00.85	
60.23667	-175.59167	DC80069	010	0117	00.0	10.4	62.8	26.8	00.12	6.54	2.18	0.28	-00.85	
59.85500	-176.34167	DC80070	016	0142	00.0	09.4	58.2	32.4	00.10	6.93	2.21	0.06	-00.93	
59.46667	-177.09333	DC80071	005	0150	00.0	36.0	49.5	14.5	00.57	5.22	2.11	1.15	00.33	
60.07833	-177.81833	DC80072	001	0140	00.0	78.4	19.7	01.9	03.63	3.76	1.12	3.05	01.90	
58.68167	-178.53667	DC80073	010	3250	00.0	08.6	47.2	44.2	00.09	7.46	2.34	-0.29	-00.98	
59.87333	-174.88000	DC80081	009	0117	00.0	11.5	65.3	23.2	00.13	6.32	2.14	0.48	-00.72	
57.93834	-171.93668	DC80082	008	0105	00.0	23.0	62.9	14.1	00.30	5.40	2.21	0.29	00.62	
57.95834	-172.67833	DC80085	010	0112	00.0	20.8	67.3	11.9	00.28	5.24	1.95	0.39	01.40	
57.80500	-173.42000	DC80086	001	0143	00.0	76.3	19.6	04.1	03.23	3.63	1.66	2.19	05.03	
57.22833	-174.16333	DC80088	008	1252	00.0	35.2	34.9	29.9	00.54	6.10	2.76	0.37	-01.34	
58.35167	-172.89000	DC80093	001	0108	00.0	25.5	59.4	15.1	00.34	5.45	2.11	1.00	00.13	
58.35167	-172.89000	DC80094	008	0108	00.0	23.2	63.6	13.2	00.30	5.34	2.01	1.06	00.51	
57.22500	-175.66667	DC80100	023	3232										
57.97500	-174.85667	DC80102	025	2960	00.0	04.6	54.0	41.4	00.05	7.53	2.14	0.00	-01.03	

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 59.09000 -174.80000 DC80112 015 0129 00.0 34.4 53.0 12.6 00.52 5.05 1.95 0.93 -00.06  
 58.71667 -175.54667 DC80113 001 0136 00.0 52.6 41.5 05.9 01.11 4.35 1.62 2.04 04.44  
 58.71665 -175.54665 DC80114 001 0136 00.0 80.9 34.4 04.7 01.56 4.12 1.56 2.17 05.28  
 58.32867 -176.29167 DC80115 016 2870 00.0 08.7 57.6 33.7 00.10 7.12 2.13 -0.15 -00.73  
 59.48150 -175.59500 DC81001 001 0135  
 59.10033 -176.33400 DC81002 010 0143 00.0 19.0 71.8 09.2 00.23 5.69 2.14 0.54 00.54  
 58.72100 -177.05833 DC81003 010 0133 00.0 69.8 28.8 01.4 02.31 3.60 1.44 1.19 04.33  
 58.52167 -177.43333 DC81004 010 2816 00.0 04.7 55.8 39.5 00.05 7.48 1.93 -0.09 -00.92  
 58.14333 -177.38667 DC81006 010 3395 00.0 03.9 44.1 52.0 00.04 7.98 1.88 -0.35 -00.68  
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 60.57167 -179.75166 DC81012 006 1683 00.0 61.4 30.8 07.8 01.59 4.46 1.82 1.97 03.19  
 60.57167 -179.75166 DC81012 050 1683 00.0 54.9 34.4 10.7 01.22 4.67 1.96 1.81 02.32  
 60.57167 -179.75166 DC81012 100 1683 00.0 50.5 39.3 10.2 01.02 4.72 1.96 1.82 02.37  
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 60.32167 -179.81833 DC81013 004 2080  
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 59.87334 -179.99167 DC81015 284 2750 00.0 51.8 31.9 16.3 01.07 4.96 2.53 1.17 00.08  
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 60.21867 -179.35000 DC81017 293 0900 00.0 74.2 16.8 09.0 02.88 4.06 2.03 1.84 02.76  
 60.21833 -179.35834 DC81018 001 0884 00.0 87.0 09.6 03.4 06.69 3.46 1.44 3.06 10.89  
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 60.16983 -179.46517 DC81019 001 1018 00.0 04.5 47.8 47.7 00.05 8.61 2.48 -0.21 -00.53  
 60.17867 -179.44833 DC81020 010 1005 00.0 05.0 58.3 24.4 07.3 02.16 4.14 1.87 1.98 03.60  
 60.17867 -179.44833 DC81020 050 1005 00.0 08.5 51.2 40.3 00.09 7.10 2.50 0.09 -01.52  
 60.17867 -179.44833 DC81020 065 1005 00.0 08.1 52.0 39.9 00.09 7.15 2.40 0.07 -01.40  
 60.17867 -179.44833 DC81020 100 1005 00.0 05.6 43.4 51.0 00.06 7.84 2.25 -0.29 -01.16  
 60.17867 -179.44833 DC81020 200 1005 00.0 04.8 45.8 49.4 00.05 7.72 2.22 -0.33 -01.18  
 60.17867 -179.44833 DC81020 300 1005 00.0 02.8 37.0 60.2 00.03 8.49 1.93 -0.64 -00.49

60.17667	-179.44833	DC81020	374	1005	00.0	17.8	53.8	28.4	00.22	6.30	2.50	0.52	-01.14
60.10167	-179.57500	DC81021	010	1640	00.0	63.4	32.6	04.0	01.73	4.09	1.97	0.91	01.91
60.10167	-179.57500	DC81021	100	1640	00.0	19.1	49.0	31.9	00.24	6.59	2.51	0.24	-01.28
61.52583	-176.42517	DC81024	010	0104	00.0	06.1	57.2	36.7	00.07	7.71	2.74	0.03	-00.73
61.77000	-177.50334	DC81025	210	0123	00.0	10.6	62.0	27.4	00.12	6.49	2.37	0.49	-01.05
61.16000	-177.78334	DC81027	010	0145	00.0	24.4	50.7	24.9	00.32	6.40	2.99	0.26	-00.58
61.16000	-177.78334	DC81027	100	0145	00.0	12.6	59.1	28.3	00.14	6.49	2.38	0.42	-01.15
61.22550	-177.39033	DC81028	010	0128	00.0	19.8	48.0	32.2	00.25	7.13	3.02	0.06	-00.70
61.22500	-177.39000	DC81029	065	0128	00.0	21.7	61.5	16.8	00.28	5.71	2.15	0.84	-00.20
61.24167	-177.58000	DC81030	010	0133	00.0	27.6	42.8	29.6	00.38	6.22	2.61	0.32	-01.24
61.24167	-177.58000	DC81030	050	0133	00.0	30.0	45.8	24.2	00.43	5.93	2.53	0.56	-01.02
60.20183	-176.59233	DC81031	010	0137	00.0	08.5	60.3	31.2	00.09	7.39	2.47	0.27	-00.59
60.18383	-176.21833	DC81032	010	0130	00.0	09.8	66.9	23.3	00.11	7.32	2.38	0.16	-00.38
60.18384	-176.21834	DC81033	001	0130	00.0	74.5	20.3	05.2	02.91	3.71	1.77	2.06	04.35
57.33417	-172.71133	DC81034	010	0115	00.0	37.2	58.0	04.8	00.59	4.71	1.96	1.49	02.66
57.82667	-173.56833	DC81036	001	0133	00.0	87.7	10.3	02.0	07.16	3.15	1.21	2.67	08.99
57.82667	-174.39166	DC81037	010	1100	00.0	08.2	47.3	44.5	00.09	7.41	2.40	-0.11	-01.37
57.82667	-174.39166	DC81037	050	1100	00.0	09.1	48.8	42.1	00.09	7.34	2.44	-0.06	-01.38
57.82667	-174.39166	DC81037	110	1100	08.3	33.5	35.6	22.6	00.72	5.06	3.28	0.00	-00.45
57.82667	-174.39166	DC81037	125	1100	00.0	16.5	40.9	42.6	00.20	7.33	2.53	-0.37	-00.89
57.82667	-174.39166	DC81037	200	1100	00.0	14.2	46.7	39.1	00.17	6.99	2.57	-0.01	-01.34
57.82667	-174.39166	DC81037	300	1100	00.0	04.1	78.3	17.6	00.04	5.72	2.08	1.28	00.20
58.16833	-175.48666	DC81038	001	1080	00.0	33.5	51.7	14.8	00.50	5.22	2.24	0.92	00.03
58.16833	-175.48666	DC81038	049	1080	00.0	15.8	64.4	19.8	00.19	6.02	2.22	0.66	-00.55
58.16833	-175.48666	DC81038	100	1080	00.0	16.8	61.9	21.3	00.20	6.05	2.26	0.61	-00.66
58.16833	-175.48666	DC81038	200	1080	00.0	09.2	49.2	41.6	00.10	7.33	2.33	-0.07	-01.28
58.16833	-175.48666	DC81038	220	1080	00.0	05.8	40.6	53.6	00.06	8.02	2.30	-0.45	-01.07
58.16833	-175.48666	DC81038	300	1080	00.0	05.7	44.3	50.0	00.06	7.79	2.34	-0.28	-01.28
58.16833	-175.48666	DC81038	345	1080	00.0	08.2	57.8	34.0	00.09	6.45	2.64	0.59	-01.43
58.16833	-175.48666	DC81038	375	1080	00.0	06.6	45.3	48.1	00.07	7.68	2.34	-0.24	-01.26
58.33483	-174.48567	DC81039	010	0915	00.0	52.0	44.0	04.0	01.08	4.55	1.82	1.85	03.88
58.33483	-174.48567	DC81039	050	0915	00.0	61.3	31.7	07.0	01.59	4.38	1.76	1.82	03.02
58.52500	-175.39999	DC81040	001	0143	04.0	38.3	43.3	14.4	00.73	4.79	2.61	0.36	00.47
57.96333	-174.99967	DC81042	014	3150	00.0	29.0	47.2	23.8	00.41	5.96	2.52	0.51	-00.98
57.96333	-174.99967	DC81042	300	3150	00.0	02.4	50.5	47.1	00.02	7.79	1.99	-0.21	-00.98
56.93834	-174.98834	DC81044	010	3400	00.0	04.7	64.7	30.6	00.05	6.58	2.27	0.44	-01.24
56.93834	-174.98834	DC81044	065	3400	00.0	03.2	46.5	50.3	00.03	8.01	1.95	-0.35	-00.76
56.93834	-174.98834	DC81044	225	3400	00.0	03.7	49.7	46.6	00.04	7.70	2.04	-0.15	-01.01
56.93617	-174.98867	DC81045	001	3400	00.0	12.5	56.7	30.8	00.14	7.61	2.61	-0.03	-00.47
56.85667	-174.14166	DC81046	001	2530	00.0	09.3	60.8	29.9	00.10	6.87	2.02	0.05	-00.85
56.85667	-174.14166	DC81046	011	2530	00.0	04.8	59.6	35.6	00.05	7.20	2.03	0.08	-00.97
56.85667	-174.14166	DC81046	045	2530	00.0	06.5	55.5	38.0	00.07	7.20	2.08	0.00	-00.98
56.97000	-174.35333	DC81047	010	2760	00.0	10.9	62.0	27.1	00.12	7.50	2.48	0.02	-00.61
56.97000	-174.35333	DC81047	125	2760	00.0	07.2	61.0	31.8	00.08	7.04	2.24	0.11	-01.25
56.97000	-174.35333	DC81047	400	2760	00.0	05.8	42.5	51.7	00.06	7.93	2.14	-0.42	-00.88
57.10933	-174.59083	DC81048	010	2910	00.0	10.6	59.4	30.0	00.12	7.62	2.57	-0.02	-00.42
57.64167	-175.63333	DC81049	001	1770	00.0	63.5	33.3	03.2	01.74	3.97	1.35	1.41	02.85
57.64167	-175.63333	DC81049	010	1770	00.0	56.0	38.7	07.3	01.27	4.37	1.84	1.73	02.77
57.64167	-175.63333	DC81049	050	1770	00.0	19.9	46.3	33.8	00.25	6.58	2.53	0.15	-01.29
57.64167	-175.63333	DC81049	100	1770	00.0	08.2	40.3	51.5	00.09	7.89	2.19	-0.45	-00.82
57.64167	-175.63333	DC81049	200	1770	00.0	12.3	44.0	43.7	00.14	7.29	2.59	-0.12	-01.44
57.64167	-175.63333	DC81049	300	1770	00.0	11.1	37.9	51.0	00.12	7.67	2.45	-0.39	-01.12
57.64167	-175.63333	DC81049	400	1770	00.0	26.3	45.3	28.4	00.36	6.11	2.63	0.49	-01.20
57.64167	-175.63333	DC81049	500	1770	00.0	31.8	45.7	22.5	00.47	5.74	2.47	0.72	-00.77
57.87000	-176.47501	DC81050	010	3430	00.0	07.5	49.8	42.7	00.08	7.33	2.05	-0.30	-01.04
57.87000	-176.47501	DC81050	050	3430	00.0	05.3	45.7	49.0	00.56	7.91	2.03	-0.37	-00.73
57.87000	-176.47501	DC81050	100	3430	00.0	06.4	47.4	46.2	00.07	7.84	2.08	-0.29	-00.89
57.87000	-176.47501	DC81050	200	3430	00.0	04.8	48.0	47.2	00.05	7.71	2.15	-0.22	-01.07
57.87000	-176.47501	DC81050	272	3430	00.0	01.9	63.4	34.7	00.02	7.78	1.57	0.05	00.01
57.87000	-176.47501	DC81050	300	3430	00.0	12.4	45.0	42.6	00.14	7.23	2.39	-0.19	-01.18
57.87000	-176.47501	DC81050	400	3430	00.0	05.7	37.8	56.7	00.06	8.09	2.26	-0.53	-00.95
58.34000	-177.41833	DC81051	010	3220	00.0	09.1	58.7	34.2	00.10	7.98	2.52	-0.13	-00.31
58.34000	-177.41833	DC81051	125	3220	00.0	11.3	60.8	27.9	00.13	6.49	2.36	0.47	-01.09
58.55950	-177.88650	DC81052	010	1070	00.0	52.9	23.9	23.2	01.12	5.76	3.30	0.31	-00.61
58.38667	-176.41800	DC81053	010	2676	00.0	07.2	66.0	26.8	00.08	7.54	2.36	0.19	-00.57
58.14000	-176.04834	DC81054	011	3220	00.0	09.9	57.4	32.7	00.11	7.83	2.55	-0.19	-00.76
57.78667	-175.53333	DC81055	010	2320	00.0	38.6	48.5	12.9	00.63	5.50	2.67	0.40	-00.10

58.19333	-176.01000	DC81056	010	2925	00.0	15.7	53.9	30.4	00.19	7.33	2.99	-0.19	-00.25
57.95000	-176.08000	DC81057	001	3395									
59.10333	-177.45500	DC81058	013	0179	00.0	60.5	36.4	03.1	01.53	4.00	1.90	1.70	03.55
59.75150	-177.35383	DC81059	010	0152	00.0	53.8	42.2	04.0	01.16	4.37	1.87	1.88	04.01
59.80450	-177.40900	DC81060	010	0140	00.0	53.7	41.1	05.2	01.16	4.42	2.03	1.77	06.32
59.81600	-177.43400	DC81061	010	0141	00.0	23.6	67.8	08.6	00.31	5.43	2.16	1.20	04.33
59.82600	-177.49650	DC81062	010	0139	00.0	31.3	62.0	06.7	00.46	5.05	2.12	1.31	04.79
59.85334	-177.49167	DC81063	010	0135	00.0	21.5	69.9	08.6	00.27	5.47	2.13	1.20	04.41
59.85334	-177.49167	DC81063	023	0135	00.0	05.6	56.5	37.9	00.06	7.13	2.26	0.10	-01.31
59.85334	-177.49167	DC81063	055	0135	00.0	24.8	60.4	14.8	00.33	5.46	2.09	1.01	00.17
59.83883	-177.86917	DC81064	010	0216	00.0	72.3	23.9	03.8	02.62	4.07	1.83	2.26	08.44
59.42333	-177.85333	DC81065	010	0436	00.0	78.4	19.9	01.7	03.65	3.70	1.28	3.55	19.29
59.41150	-178.24150	DC81066	010	0580	00.0	12.3	74.7	13.0	00.14	6.03	2.35	0.78	03.37
59.64333	-178.62000	DC81068	010	1048	00.0	14.8	77.3	07.9	00.17	5.77	1.99	1.07	04.56
58.52700	-178.46717	DC81070	010	3390	00.0	09.5	60.6	29.9	00.11	7.61	2.54	0.00	02.19
58.80000	-178.00000	DC81071	010	0520	00.0	56.6	41.4	2.00	01.30	4.04	1.43	2.51	12.31
59.41667	-177.65334	DC81075	001	0310	00.0	91.2	07.3	01.5	10.34	2.91	1.25	3.17	14.65
59.90167	-178.15167	DC81077	001	0145									
60.88667	-179.09166	DC81089	001	0328	18.8	76.6	03.7	00.9	20.41	2.04	1.89	-0.58	01.02
60.56833	-178.72166	DC81098	001	0220	00.0	56.3	40.4	03.3	01.29	4.27	1.69	2.16	09.01
60.56833	-178.72166	DC81098	005	0220	00.0	52.6	44.2	03.2	01.11	4.46	1.56	2.57	10.55
60.15000	-176.08834	DC81105	cc	0144	00.0	06.7	62.2	31.1	00.07	7.06	1.96	0.22	-00.86
59.18667	-174.99500	DC81108	001	0132									
60.01738	-179.99890	LE82001	001	2674	00.0	07.8	60.1	32.1	00.09	7.14	2.13	-0.28	02.48
60.14833	-180.19667	LE82002	001	2047	00.0	38.2	42.9	18.9	00.62	5.46	2.49	0.55	02.20
60.23973	-179.87002	LE82003	001	2294	00.0	06.1	64.8	29.1	00.07	7.00	2.07	-0.07	02.36
60.56667	-179.64999	LE82004	001	1376	00.0	78.9	16.7	04.4	03.73	3.37	1.73	2.01	07.32
61.28000	-178.27333	LE82005	001	0153	00.0	59.7	28.1	12.2	01.49	4.73	2.23	1.25	03.41
60.90000	-178.75166	LE82006	001	0202	00.0	84.9	12.2	02.9	05.62	3.23	1.57	2.40	09.83
60.93333	-178.75166	LE82007	001	0205	01.0	77.2	16.5	05.3	03.58	3.43	2.02	1.63	06.01
60.96667	-178.75099	LE82008	001	0213	00.0	71.5	22.0	06.5	02.51	3.66	2.18	1.40	04.53
61.00000	-178.75099	LE82009	001	0208	00.0	74.7	18.1	07.2	02.95	3.35	2.23	1.57	04.83
61.03333	-178.75099	LE82010	001	0206	01.1	78.8	14.9	05.2	04.00	3.15	2.14	1.63	05.67
61.05833	-178.76500	LE82011	001	0205	57.4	34.8	05.6	02.2	11.77	0.60	2.56	1.45	04.97
61.08333	-178.76666	LE82012	001	0203	00.0	78.4	17.0	04.8	03.62	3.20	1.98	1.83	06.36
61.11167	-178.77000	LE82013	001	0200	53.6	35.4	08.5	02.5	08.05	0.73	2.64	1.41	04.75
60.09167	-177.19167	LE82014	001	0138	00.0	17.8	62.9	19.3	00.22	6.00	2.22	0.41	02.36
59.96500	-177.42166	LE82015	001	0138	00.0	17.2	64.1	18.7	00.21	5.99	2.17	0.48	02.45
59.47538	-178.24920	LE82016	001	0277	00.0	52.2	41.7	06.1	01.09	4.41	1.83	1.48	04.95
59.43834	-178.25166	LE82017	001	0382	00.0	71.0	25.1	03.9	02.46	3.92	1.62	2.01	07.36
59.40500	-178.25000	LE82018	001	0625	23.7	53.0	16.9	06.4	03.29	2.21	3.02	0.89	03.27
59.36667	-178.25000	LE82019	001	0852	00.0	50.6	42.1	07.3	01.02	4.57	1.83	1.61	05.06
59.33334	-178.25166	LE82020	001	0739	41.6	41.9	14.3	02.2	05.04	1.57	2.74	0.56	02.82
58.72500	-177.03334	LE82021	001	0130	00.0	64.2	32.3	03.5	01.80	3.83	1.55	2.04	08.06
58.75000	-177.01334	LE82022	001	0130	00.0	62.9	33.0	04.1	01.70	3.92	1.71	1.74	06.30
58.85833	-176.78334	LE82023	001	0125	01.1	59.1	35.1	04.7	01.47	3.98	1.84	1.29	05.78
58.85000	-176.80000	LE82024	001	0124	00.0	60.1	34.8	05.1	01.50	4.07	1.82	1.58	05.44
58.83334	-176.83167	LE82025	001	0126	00.0	60.9	34.5	04.6	01.56	3.96	1.81	1.61	05.60
58.80833	-176.88333	LE82026	001	0124	01.2	54.4	38.5	05.9	01.25	4.16	1.94	1.15	05.15
58.78833	-176.91833	LE82027	001	0127	00.0	58.0	37.1	04.9	01.38	4.12	1.77	1.60	05.67
58.76667	-176.95833	LE82028	001	0126	01.0	58.3	35.9	04.8	01.45	4.07	1.84	1.29	05.73
58.68167	-176.02667	LE82029	001	0137	00.0	71.7	24.3	04.0	02.53	3.80	1.60	2.23	08.42
58.54000	-176.10167	LE82030	001	0385	00.0	64.7	32.8	02.5	01.84	3.84	1.36	2.20	10.01
58.38000	-176.17500	LE82031	001	2852	04.0	09.1	53.9	33.0	00.15	6.65	2.74	-0.81	03.80
58.46667	-176.35167	LE82032	001	2186	00.0	14.7	59.0	26.3	00.17	6.76	2.16	-0.08	02.37
58.47334	-176.74834	LE82033	001	1864	00.0	24.4	60.6	15.0	00.32	5.66	2.15	0.63	02.55
58.54333	-176.68333	LE82034	001	0845	00.0	16.7	67.8	15.5	00.20	5.77	2.08	0.66	02.72
58.91833	-175.98666	LE82035	001	0131	00.0	36.4	57.2	06.4	00.57	4.70	1.77	1.30	04.79
59.26500	-176.70000	LE82036	001	0146	00.0	22.1	64.6	13.3	00.28	5.61	2.05	0.62	02.92
59.52834	-176.14999	PS80001	001	0145	00.0	08.1	66.5	25.4	00.09	6.57	2.04	0.35	-00.78
59.73667	-177.83501	PS80002	001	0162									
60.00500	-177.53334	PS80003	017	0132	00.0	17.1	63.5	19.4	00.21	5.87	2.23	0.74	-00.40
60.14400	-178.30667	PS80004	001	0158	00.0	66.8	28.6	04.6	02.02	4.15	1.56	2.28	05.60
60.64167	-178.71001	PS80005	001	0196	00.0	72.6	23.5	03.9	02.65	3.91	1.48	2.15	05.41
60.79000	-178.47166	PS80006	001	0165	00.0	42.4	45.9	11.7	00.74	5.03	2.14	1.25	00.57
60.71667	-177.65167	PS80007	001	0145	00.0	15.0	58.4	26.6	00.18	6.35	2.30	0.40	-00.99
60.43267	-177.29150	PS80008	011	0147	00.0	09.2	64.6	26.2	00.10	6.38	2.21	0.48	-00.96

60.00500	-176.91667	PS80010	009	0140	00.0	09.4	59.6	31.0	00.10	6.91	2.32	0.19	-01.02
59.70057	-175.01817	PS80011	017	0122	00.0	14.6	82.3	23.1	00.17	6.17	2.12	0.37	-00.90
59.96400	-174.18483	PS80012	014	3164	00.0	08.9	58.9	32.2	00.10	6.83	2.28	0.25	-01.15
60.24087	-173.73583	PS80013	001	0078	00.0	67.4	24.8	07.8	02.07	3.97	2.18	1.34	01.10
60.71500	-174.10500	PS80014	001	0086	00.0	15.6	55.8	28.6	00.18	6.53	2.29	0.26	-01.06
60.20833	-175.42000	PS80016	001	0120	00.0	11.5	63.0	25.5	00.13	6.35	2.24	0.48	-00.85
60.81500	-176.26500	PS80017	015	0117	00.0	08.0	53.8	38.2	00.09	7.39	2.38	0.04	-01.10
60.98167	-175.50166	PS80018	015	0103	00.0	08.8	55.3	35.9	00.10	7.00	2.27	0.08	-01.22
61.50000	-174.74333	PS80019	001	0082	00.0	22.0	49.3	28.7	00.28	6.39	2.45	0.22	-01.14
61.70667	-175.58501	PS80020	015	0094	00.0	04.1	49.0	46.9	00.04	7.61	2.34	-0.13	-01.05
61.53833	-176.26666	PS80021	004	0106	00.0	08.5	55.1	36.4	00.09	7.11	2.18	-0.07	-00.88
61.02500	-177.09666	PS80022	010	0122	00.0	07.5	56.2	36.3	00.08	7.19	2.43	0.08	-01.12
61.50834	-177.40334	PS80023	008	0125	00.0	30.0	53.2	16.8	00.43	5.84	2.38	0.69	-00.76
62.00833	-176.43333	PS80025	011	0102	00.0	04.7	66.7	28.6	00.05	7.57	2.17	0.12	-00.95
62.17333	-168.98667	PS80026	001	0035	00.0	80.2	18.7	01.1	04.04	3.14	1.09	2.07	06.66
61.73833	-170.37167	PS80027	006	0047	00.0	36.9	57.4	05.7	00.59	4.79	1.72	1.74	02.95
61.28133	-169.86017	PS80028	001	0044	00.0	32.9	60.1	07.0	00.49	4.92	1.80	1.46	01.95
61.78667	-168.14333	PS80029	001	0027	00.0	87.2	11.1	01.7	06.78	3.52	1.19	3.25	14.54
61.72833	-167.13333	PS80030	001	0024	00.0	86.8	10.0	03.2	06.59	3.75	1.33	3.74	15.11
61.24517	-167.15083	PS80031	001	0022	00.0	90.4	07.6	02.0	09.43	3.49	1.11	3.42	15.41
60.52400	-168.24367	PS80032	001	0030	00.0	15.3	72.9	11.8	00.18	4.82	1.52	1.38	01.54
60.53500	-170.07001	PS80033	001	0037	00.0	55.4	40.5	04.1	01.24	4.20	1.49	2.16	05.91

LAT	LON	CRUSE	STA	4 S	5 E	6 N	7 W	8 S	9 E	10 N	11 W	12 S	13 E	14 N	15 W	16 S	17 E	18 N	19 W	20 S	21 E	22 N	23 W	24 S	25 E	26 N	27 W	28 S	29 E	30 N	31 W	32 S	33 E	34 N	35 W	36 S	37 E	38 N	39 W	40 S	41 E	42 N	43 W	44 S	45 E	46 N	47 W	48 S	49 E	50 N	51 W	52 S	53 E	54 N	55 W	56 S	57 E	58 N	59 W	60 S	61 E	62 N	63 W	64 S	65 E	66 N	67 W	68 S	69 E	70 N	71 W	72 S	73 E	74 N	75 W	76 S	77 E	78 N	79 W	80 S	81 E	82 N	83 W	84 S	85 E	86 N	87 W	88 S	89 E	90 N	91 W	92 S	93 E	94 N	95 W	96 S	97 E	98 N	99 W	100 S	101 E	102 N	103 W	104 S	105 E	106 N	107 W	108 S	109 E	110 N	111 W	112 S	113 E	114 N	115 W	116 S	117 E	118 N	119 W	120 S	121 E	122 N	123 W	124 S	125 E	126 N	127 W	128 S	129 E	130 N	131 W	132 S	133 E	134 N	135 W	136 S	137 E	138 N	139 W	140 S	141 E	142 N	143 W	144 S	145 E	146 N	147 W	148 S	149 E	150 N	151 W	152 S	153 E	154 N	155 W	156 S	157 E	158 N	159 W	160 S	161 E	162 N	163 W	164 S	165 E	166 N	167 W	168 S	169 E	170 N	171 W	172 S	173 E	174 N	175 W	176 S	177 E	178 N	179 W	180 S	181 E	182 N	183 W	184 S	185 E	186 N	187 W	188 S	189 E	190 N	191 W	192 S	193 E	194 N	195 W	196 S	197 E	198 N	199 W	200 S	201 E	202 N	203 W	204 S	205 E	206 N	207 W	208 S	209 E	210 N	211 W	212 S	213 E	214 N	215 W	216 S	217 E	218 N	219 W	220 S	221 E	222 N	223 W	224 S	225 E	226 N	227 W	228 S	229 E	230 N	231 W	232 S	233 E	234 N	235 W	236 S	237 E	238 N	239 W	240 S	241 E	242 N	243 W	244 S	245 E	246 N	247 W	248 S	249 E	250 N	251 W	252 S	253 E	254 N	255 W	256 S	257 E	258 N	259 W	260 S	261 E	262 N	263 W	264 S	265 E	266 N	267 W	268 S	269 E	270 N	271 W	272 S	273 E	274 N	275 W	276 S	277 E	278 N	279 W	280 S	281 E	282 N	283 W	284 S	285 E	286 N	287 W	288 S	289 E	290 N	291 W	292 S	293 E	294 N	295 W	296 S	297 E	298 N	299 W	300 S	301 E	302 N	303 W	304 S	305 E	306 N	307 W	308 S	309 E	310 N	311 W	312 S	313 E	314 N	315 W	316 S	317 E	318 N	319 W	320 S	321 E	322 N	323 W	324 S	325 E	326 N	327 W	328 S	329 E	330 N	331 W	332 S	333 E	334 N	335 W	336 S	337 E	338 N	339 W	340 S	341 E	342 N	343 W	344 S	345 E	346 N	347 W	348 S	349 E	350 N	351 W	352 S	353 E	354 N	355 W	356 S	357 E	358 N	359 W	360 S	361 E	362 N	363 W	364 S	365 E	366 N	367 W	368 S	369 E	370 N	371 W	372 S	373 E	374 N	375 W	376 S	377 E	378 N	379 W	380 S	381 E	382 N	383 W	384 S	385 E	386 N	387 W	388 S	389 E	390 N	391 W	392 S	393 E	394 N	395 W	396 S	397 E	398 N	399 W	400 S	401 E	402 N	403 W	404 S	405 E	406 N	407 W	408 S	409 E	410 N	411 W	412 S	413 E	414 N	415 W	416 S	417 E	418 N	419 W	420 S	421 E	422 N	423 W	424 S	425 E	426 N	427 W	428 S	429 E	430 N	431 W	432 S	433 E	434 N	435 W	436 S	437 E	438 N	439 W	440 S	441 E	442 N	443 W	444 S	445 E	446 N	447 W	448 S	449 E	450 N	451 W	452 S	453 E	454 N	455 W	456 S	457 E	458 N	459 W	460 S	461 E	462 N	463 W	464 S	465 E	466 N	467 W	468 S	469 E	470 N	471 W	472 S	473 E	474 N	475 W	476 S	477 E	478 N	479 W	480 S	481 E	482 N	483 W	484 S	485 E	486 N	487 W	488 S	489 E	490 N	491 W	492 S	493 E	494 N	495 W	496 S	497 E	498 N	499 W	500 S	501 E	502 N	503 W	504 S	505 E	506 N	507 W	508 S	509 E	510 N	511 W	512 S	513 E	514 N	515 W	516 S	517 E	518 N	519 W	520 S	521 E	522 N	523 W	524 S	525 E	526 N	527 W	528 S	529 E	530 N	531 W	532 S	533 E	534 N	535 W	536 S	537 E	538 N	539 W	540 S	541 E	542 N	543 W	544 S	545 E	546 N	547 W	548 S	549 E	550 N	551 W	552 S	553 E	554 N	555 W	556 S	557 E	558 N	559 W	560 S	561 E	562 N	563 W	564 S	565 E	566 N	567 W	568 S	569 E	570 N	571 W	572 S	573 E	574 N	575 W	576 S	577 E	578 N	579 W	580 S	581 E	582 N	583 W	584 S	585 E	586 N	587 W	588 S	589 E	590 N	591 W	592 S	593 E	594 N	595 W	596 S	597 E	598 N	599 W	600 S	601 E	602 N	603 W	604 S	605 E	606 N	607 W	608 S	609 E	610 N	611 W	612 S	613 E	614 N	615 W	616 S	617 E	618 N	619 W	620 S	621 E	622 N	623 W	624 S	625 E	626 N	627 W	628 S	629 E	630 N	631 W	632 S	633 E	634 N	635 W	636 S	637 E	638 N	639 W	640 S	641 E	642 N	643 W	644 S	645 E	646 N	647 W	648 S	649 E	650 N	651 W	652 S	653 E	654 N	655 W	656 S	657 E	658 N	659 W	660 S	661 E	662 N	663 W	664 S	665 E	666 N	667 W	668 S	669 E	670 N	671 W	672 S	673 E	674 N	675 W	676 S	677 E	678 N	679 W	680 S	681 E	682 N	683 W	684 S	685 E	686 N	687 W	688 S	689 E	690 N	691 W	692 S	693 E	694 N	695 W	696 S	697 E	698 N	699 W	700 S	701 E	702 N	703 W	704 S	705 E	706 N	707 W	708 S	709 E	710 N	711 W	712 S	713 E	714 N	715 W	716 S	717 E	718 N	719 W	720 S	721 E	722 N	723 W	724 S	725 E	726 N	727 W	728 S	729 E	730 N	731 W	732 S	733 E	734 N	735 W	736 S	737 E	738 N	739 W	740 S	741 E	742 N	743 W	744 S	745 E	746 N	747 W	748 S	749 E	750 N	751 W	752 S	753 E	754 N	755 W	756 S	757 E	758 N	759 W	760 S	761 E	762 N	763 W	764 S	765 E	766 N	767 W	768 S	769 E	770 N	771 W	772 S	773 E	774 N	775 W	776 S	777 E	778 N	779 W	780 S	781 E	782 N	783 W	784 S	785 E	786 N	787 W	788 S	789 E	790 N	791 W	792 S	793 E	794 N	795 W	796 S	797 E	798 N	799 W	800 S	801 E	802 N	803 W	804 S	805 E	806 N	807 W	808 S	809 E	810 N	811 W	812 S	813 E	814 N	815 W	816 S	817 E	818 N	819 W	820 S	821 E	822 N	823 W	824 S	825 E	826 N	827 W	828 S	829 E	830 N	831 W	832 S	833 E	834 N	835 W	836 S	837 E	838 N	839 W	840 S	841 E	842 N	843 W	844 S	845 E	846 N	847 W	848 S	849 E	850 N	851 W	852 S	853 E	854 N	855 W	856 S	857 E	858 N	859 W	860 S	861 E	862 N	863 W	864 S	865 E	866 N	867 W	868 S	869 E	870 N	871 W	872 S	873 E	874 N	875 W	876 S	877 E	878 N	879 W	880 S	881 E	882 N	883 W	884 S	885 E	886 N	887 W	888 S	889 E	890 N	891 W	892 S	893 E	894 N	895 W	896 S	897 E	898 N	899 W	900 S	901 E	902 N	903 W	904 S	905 E	906 N	907 W	908 S	909 E	910 N	911 W	912 S	913 E	914 N	915 W	916 S	917 E	918 N	919 W	920 S	921 E	922 N	923 W	924 S	925 E	926 N	927 W	928 S	929 E	930 N	931 W	932 S	933 E	934 N	935 W	936 S	937 E	938 N	939 W	940 S	941 E	942 N	943 W	944 S	945 E	946 N	947 W	948 S	949 E	950 N	951 W	952 S	953 E	954 N	955 W	956 S	957 E	958 N	959 W	960 S	961 E	962 N	963 W	964 S	965 E	966 N	967 W	968 S	969 E	970 N	971 W	972 S	973 E	974 N	975 W	976 S	977 E	978 N	979 W	980 S	981 E	982 N	983 W	984 S	985 E	986 N	987 W	988 S	989 E	990 N	991 W	992 S	993 E	994 N	995 W	996 S	997 E	998 N	999 W	1000 S	1001 E	1002 N	1003 W	1004 S	1005 E	1006 N	1007 W	1008 S	1009 E	1010 N	1011 W	1012 S	1013 E	1014 N	1015 W	1016 S	1017 E	1018 N	1019 W	1020 S	1021 E	1022 N	1023 W	1024 S	1025 E	1026 N	1027 W	1028 S	1029 E	1030 N	1031 W	1032 S	1033 E	1034 N	1035 W	1036 S	1037 E	1038 N	1039 W	1040 S	1041 E	1042 N	1043 W	1044 S	1045 E	1046 N	1047 W	1048 S	1049 E	1050 N</th



57 64167 -176.63333 DC81049 500 1770 58 1 00.3 31.4 00.6 06 8 02.8 00.0 00.0 00.0 00.0 00 0 00 0 00 0 00 0 00 0 353 GC  
 57.87000 -176.47501 DC81050 010 3430 08.9 00.5 11.3 00.5 73 8 76.3 00.0 00.0 01.7 00 0 00 0 00 0 00 0 00 0 582 GC  
 57.87000 -176.47501 DC81050 100 3430 05.7 00.7 06.3 00.9 09.9 73 8 00.0 00.0 02.9 00 0 00 0 00 0 00 0 00 0 584 GC  
 57.87000 -176.47501 DC81050 200 3430 21.2 01.3 33.3 00.6 18.3 23.3 00.0 00.0 02 1 00 0 00 0 00 0 00 0 00 0 381 GC  
 57.87000 -176.47501 DC81050 300 3430 37.2 00.7 39.9 01.8 04.9 13.6 00.0 00.0 02 0 00 0 00 0 00 0 00 0 00 0 7 445 GC  
 57.87000 -176.47501 DC81050 400 3430 37.8 00.6 43.3 00.0 11.0 05.0 00.0 00.0 02 5 00 0 00 0 00 0 00 0 00 0 326 GC  
 58.34000 -177.41833 DC81051 001 3220 73.2 20.3 05.2 01.0 00.0 00.3 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00 0 00 0 306 GC  
 58.34000 -177.41833 DC81051 125 3220 28.8 04.2 02.8 03.2 00.0 00.3 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.0 02 6 00 0 497 GC  
 58.55050 -177.88650 DC81052 010 1070 13.1 00.3 15.6 05.3 02.9 57.8 00.0 02 1 02 9 00 0 00 0 00 0 00 0 00 0 00 3 374 GC  
 58.14000 -176.04834 DC81054 012 3220 76.9 07.8 02.6 06.3 00.0 02 0 00 0 00 0 00 0 00 0 00 0 00 0 04 4 00 0 385 GC  
 57.95000 -176.98000 DC81057 001 3395 73.5 02.6 15.5 00.6 02.2 00.0 00 3 00 0 00 6 00 3 04 1 00 3 00 0 362 GC  
 59.10333 -177.45500 DC81058 001 0179 74.1 16.1 07.1 00.8 00.0 00.6 00 0 00 0 00 0 00 0 00 0 00 0 01 4 00 0 367 GC  
 59.85334 -177.49167 DC81063 023 0135 69.5 02.8 17.1 02.8 01.6 05.0 00 0 00 0 00 0 00 0 00 0 00 0 00 6 00 0 322 GC  
 59.85334 -177.49167 DC81063 033 0135 40.5 03.0 43.2 01.6 11.5 00.3 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 336 GC  
 59.85334 -177.49167 DC81063 055 0135 65 1 11.2 03.4 05.7 00.0 10.4 00 0 00 0 00 0 00 0 00 0 00 0 04 2 00 0 384 GC  
 58.80000 -178.00000 DC81071 001 0520 51.0 00.3 28.4 02.0 02.9 13.4 00 0 00 0 02 0 00 0 00 0 00 0 00 0 00 0 306 GC  
 59.41667 -177.85334 DC81075 001 0310 77.2 14.8 05.4 00.0 00.0 02.0 00 0 00 0 00 0 00 0 00 0 00 0 00 3 00 0 317 VV  
 59.35817 -179.10933 DC81076 010 3230 23.1 00.3 11.2 01.0 09.5 52.8 00.0 00 0 02 1 00 0 00 0 00 0 00 0 00 0 00 0 294 GC  
 59.90167 -178.15167 DC81077 001 0145 82.1 02.5 13.9 00.8 00.6 00.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 3 316 VV  
 60.21833 -177.55217 DC81078 010 0139 50.8 00.5 20.9 03.6 11.1 12.9 00 0 00 0 00 2 00 0 00 0 00 0 00 0 00 0 00 0 441 GC  
 60.50150 -178.98733 DC81079 010 0141 22.5 00.3 11.0 01.7 04.5 59.7 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 290 GC  
 60.45000 -178.72333 DC81081 001 0269 48.9 01.2 47.2 01.9 02.8 00.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 322 VV  
 59.96500 -178.98666 DC81084 001 0780 79.9 04.1 12.9 02.2 00.0 00.6 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 6 318 GC  
 60.88667 -179.09166 DC81089 001 0328 70.8 05.8 21.5 00.3 01.0 00.6 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 8 312 VV  
 60.86500 -179.18333 DC81091 001 0410 65.5 00.8 41.6 00.5 00.5 00.0 00 0 00 0 00 0 00 0 00 0 00 0 01 1 00 0 00 0 373 GC  
 60.86667 -179.20166 DC81093 001 0420 46.2 01.8 48.7 00 00.3 00.3 00 0 00 0 00 0 00 0 00 0 00 0 00 0 02 7 00 0 00 0 329 VV  
 60.85334 -179.26334 DC81094 001 0438 60.9 00.0 35.2 00.3 02.9 00.3 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 383 VV  
 60.78334 -178.97332 DC81095 001 0255 61.8 00.9 40.9 00.9 04.9 00.6 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 328 BC  
 60.78334 -178.97333 DC81096 004 0250 49.6 00.9 42.4 00.6 06.2 00.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 323 BC  
 60.70834 -179.26834 DC81097 001 0432 50.7 00.9 48.3 01.8 00.3 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 337 BC  
 60.56833 -178.72166 DC81098 001 0220 48.1 03.2 39.7 02.6 03.7 02.4 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 345 GC  
 60.56833 -178.72166 DC81098 005 0220 57.7 01.1 31.2 00.9 07.9 00.6 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 352 GC  
 60.57500 -178.73000 DC81100 005 0220 34.3 00.3 37.2 02.8 11.8 12.7 00 0 00 0 01 1 00 0 00 0 00 0 00 0 00 0 00 0 361 VC  
 60.57500 -178.73001 DC81100 001 0222 47.6 00.0 40.0 00.3 07.7 03.8 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 313 VC  
 60.46000 -178.70334 DC81101 001 0269 49.3 00.0 44.9 00.0 05.8 00.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 345 BC  
 60.15000 -178.98834 DC81105 001 0144 12.2 04.1 00.8 12.7 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 483 GC  
 59.18667 -174.99500 DC81108 001 0132 45.4 00.0 20.4 00.6 01.9 21.4 00 0 01 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 313 GC  
 60.14133 -180.19667 LE82002 001 2047 16.7 00.5 27.5 00.5 14.4 37.6 00 0 00 0 02 3 00 0 00 0 00 5 00 0 00 0 436 GC  
 60.56667 -179.84999 LE82004 001 1376 47.1 00.8 50.0 01.3 00.8 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 394 GC  
 61.28000 -178.27333 LE82005 001 0153 54.2 01.4 41.2 02.3 00.6 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 354 GC  
 60.90000 -178.75166 LE82006 001 0202 52.8 00.5 42.6 00.7 03.4 00.2 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 409 GC  
 60.93333 -178.75166 LE82007 001 0205 60.8 00.0 38.5 00.0 00.9 00.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 312 GC  
 60.96667 -178.75099 LE82008 001 0213 45.4 04.5 44.4 04.5 00.6 00.3 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 311 GC  
 61.00000 -178.75099 LE82009 001 0208 50.3 00.0 44.4 00.0 03.3 02.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 306 GC  
 61.03333 -178.75099 LE82010 001 0206 56.2 00.0 42.6 00.0 00.3 00.9 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 317 GC  
 61.05833 -178.78500 LE82011 001 0205 50.7 01.8 46.3 00.4 00.2 00.8 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 486 GC  
 61.08333 -178.76666 LE82012 001 0203 46.9 00.0 49.5 00.7 02.2 00.7 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 307 GC  
 61.11167 -178.77000 LE82013 001 0200 52.3 00.0 45.3 00.0 01.8 00.8 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 377 GC  
 60.09167 -177.19167 LE82014 001 0138 18.2 00.0 39.8 02.5 09.5 30.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 400 GC  
 59.96500 -177.42166 LE82015 001 0138 26.9 00.0 19.3 00.7 06.4 45.8 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 450 GC  
 59.43834 -178.25166 LE82017 001 0382 39.9 00.0 43.6 04.1 05.1 06.4 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 316 GC  
 59.40500 -178.25000 LE82018 001 0625 26.5 01.3 34.8 01.3 05.8 27.3 00 0 00 0 00 0 00 0 00 0 02 5 00 0 00 0 00 0 396 GC  
 59.36867 -178.25000 LE82019 001 0852 54.9 00.6 27.5 02.8 07.5 06.4 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 362 GC  
 59.33334 -178.25166 LE82020 001 0739 51.0 00.3 39.2 00.5 02.8 04.2 00 0 00 0 01 0 00 0 00 0 01 0 00 0 00 0 00 0 00 0 389 GC  
 58.72600 -177.03334 LE82021 001 0130 54.9 01.2 34.2 00.6 03.8 05.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 320 GB  
 58.75000 -177.01334 LE82022 001 0130 31.0 00.8 38.7 02.1 04.0 22.9 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 377 GB  
 58.88333 -176.78334 LE82023 001 0126 31.5 00.0 27.9 00.8 00.8 38.2 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 393 GB  
 58.86000 -176.80000 LE82024 001 0124 57.6 00.6 26.8 01.9 05.0 07.5 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 318 GB  
 58.83334 -176.83167 LE82025 001 0126 60.1 01.3 21.3 00.8 08.9 06.8 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 383 GB  
 58.80833 -176.88333 LE82026 001 0124 50.4 01.5 26.8 00.6 08.0 12.7 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 339 GB  
 58.78833 -176.91833 LE82027 001 0127 54.1 00.4 27.3 01.1 05.5 11.6 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 275 GB  
 58.76667 -176.95833 LE82028 001 0126 43.5 00.6 40.0 02.7 08.1 04.8 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 333 GB  
 58.68167 -176.02667 LE82029 001 0137 46.3 00.9 43.0 00.3 02.5 07.0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 319 GB  
 58.54000 -176.10167 LE82030 001 0385 39.7 00.3 45.3 01.2 05.4 07.2 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 335 GB  
 58.38000 -176.17500 LE82031 001 2852 24.7 00.2 29.8 00.7 02.8 39.7 00 0 00 0 00 0 02 1 00 0 00 0 00 0 00 0 00 0 00 0 423 GB  
 58.46667 -176.35167 LE82032 001 2186 08.3 00.0 07.5 00.7 01.5 81.0 00 0 00 0 01 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0 588 GC  
 58.47334 -176.74834 LE82033 001 1864 10.1 00.0 07.0 01.5 02.7 76.6 00 0 00 0 01 2 00 0 00 0 00 0 00 0 00 0 00 0 00 0 585 GC

